Special Issue

Synthesis and Application of Polymer Hydrogels

Message from the Guest Editors

This special issue in MDPI Gels is targeted to the recent broad and novel developments on the synthesis and applications of hydrogels in science and engineering fields. Due to high freedom of the composition and internal bonding modifications, hydrogels can have very distinguishable physical, chemical, and biological properties. Based on that, the synthesis of hydrogels has been studied and characterized to meet the detailed demands for applications, which include but not limited to 3D/4D prints, soft-robotics, biomedicines, tissue phantoms, environmental sensing, optics, acoustics, and so on. A special issue collecting the general interested studying and application directions is appreciable to the entire community. The contributions on the reviews and original studies are both highly welcomes.

Guest Editors

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About the Journal

Message from the Editorial Board

Gels (ISSN 2310-2861) is recently established international, open access journal on physical and chemical gel-based materials. The journal aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. General topics include but not limited to synthesis, characterization and applications of new organogels, hydrogels and ionic gels made either from low molecular weight compounds or polymers, composite and hybrid materials where a metal is by some means incorporated into the gel network, and computational studies of these materials in order to provide a better understanding of gelation mechanism. We cordially invite you to consider publishing with us and contribute with your own grain of sand to the advance in this fascinating field.

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